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☐ 1. Document ID: EP 430227 A2

L1: Entry 1 of 2

File: EPAB

Jun 5, 1991

PUB-NO: EP000430227A2

DOCUMENT-IDENTIFIER: EP 430227 A2

TITLE: Elastic synthetic polymer filament with multi-lobated cross-sectional profile.

PUBN-DATE: June 5, 1991

INVENTOR-INFORMATION:

NAME

KAWAKAMI, KENJI

NAGAI, HIROYUKI

FUJITA, MASAKAZU

COUNTRY

JP

JP

JP

ASSIGNEE-INFORMATION:

NAME

TEIJJIN LTD

COUNTRY

JP

APPL-NO: EP90122807

APPL-DATE: November 29, 1990

PRIORITY-DATA: JP31269189A (December 1, 1989)

US-CL-CURRENT: 264/177.13

INT-CL (IPC): D01D 5/253; D01F 6/70; D01F 6/80; D01F 6/86

EUR-CL (EPC): D01D005/253; D01F006/70, D01F006/80 , D01F006/86

ABSTRACT:

CHG DATE=19990617 STATUS=O> An elastic synthetic polymer filament having a multi-lobated cross-sectional profile is composed of (A) a filamentary axial constituent extending along the longitudinal axis of the filament, and (B) 3 to 8 filamentary lobe constituents radically protruding from and extending along the filamentary axial constituent each having a constricted portion thereof through which each filamentary lobe constituent is connected to the filamentary axial constituent, the cross-section of the filament satisfying the relationship (I): wherein d1 is a largest cross-sectional width of each filamentary lobe constituent

(C). 

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawn Desc	Image										

☐ 2. Document ID: EP 430227 A JP 2842905 B2 CA 2030405 A JP 03174013 A US 5141811 A EP 430227 B1 DE 69003791 E ES 2045730 T3 CA 2030405 C KR 9507810 B1

L1: Entry 2 of 2

File: DWPI

Jun 5, 1991

DERWENT-ACC-NO: 1991-165772
DERWENT-WEEK: 199906
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TITLE: Multilobed thermoplastic elastomeric filament - with high ultraviolet radiation and chlorine resistance, soft texture and sewability

INVENTOR: FUJITA, M; KAWAKAMI, K ; NAGAI, H

PATENT-ASSIGNEE:

ASSIGNEE

CODE

TEIJIN LTD

TEIJ

PRIORITY-DATA: 1989JP-0312691 (December 1, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 430227 A	June 5, 1991		014	
JP 2842905 B2	January 6, 1999		008	D01F006/60
CA 2030405 A	June 2, 1991		000	
JP 03174013 A	July 29, 1991		000	
US 5141811 A	August 25, 1992		010	D02G003/00
EP 430227 B1	October 6, 1993	E	014	D01D005/253
DE 69003791 E	November 11, 1993		000	D01D005/253
ES 2045730 T3	January 16, 1994		000	D01D005/253
CA 2030405 C	April 2, 1996		000	D01D005/253
KR 9507810 B1	July 20, 1995		000	D01D005/253

DESIGNATED-STATES: CH DE ES FR GB IT LI NL CH DE ES FR GB IT LI NL

CITED-DOCUMENTS: A3...199140; EP 233702 ; FR 1383858 ; FR 2125920 ; NoSR.Pub

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 430227A	November 29, 1990	1990EP-0122807	
JP 2842905B2	December 1, 1989	1989JP-0312691	
JP 2842905B2		JP 3174013	Previous Publ.
JP 03174013A	December 1, 1989	1989JP-0312691	
US 5141811A	November 21, 1990	1990US-0616438	
EP 430227B1	November 29, 1990	1990EP-0122807	
DE 69003791E	November 29, 1990	1990DE-0603791	
DE 69003791E	November 29, 1990	1990EP-0122807	
DE 69003791E		EP 430227	Based on
ES 2045730T3	November 29, 1990	1990EP-0122807	
ES 2045730T3		EP 430227	Based on
CA 2030405C	November 21, 1990	1990CA-2030405	
KR 9507810B1	December 1, 1990	1990KR-0019711	

INT-CL (IPC): D01D 5/25; D01D 5/253; D01F 6/60; D01F 6/70; D01F 6/80; D01F 6/86; D02G 3/00

ABSTRACTED-PUB-NO: EP 430227A

BASIC-ABSTRACT:

Multi-lobed cross-section thermoplastic elastomeric filament has filamentary-axial

constituent extending along its longitudinal axis from which 3-8 filamentary lobe constituents radially protrude, each lobe being connected to the filamentary axial constituent by a constricted portion. The cross-section of the filament satisfies the relationship between 1.3 and 10 d_l is largest cross-sectional width of the filamentary lobe constituents and w the smallest cross-sectional width of the constricted portions.

USE/ADVANTAGE - Elastomeric filament has a high resistance to uv ray and chlorine deterioration but a satisfactory softness and elasticity and can be sewn without breaking. It is therefore esp. used for swim-, ski- and other sports wear and lingerie.

ABSTRACTED-PUB-NO:

EP 430227B

EQUIVALENT-ABSTRACTS:

An elastic synthetic polymer filament with a multi-lobated cross-sectional profile, comprising a thermoplastic elastomer and composed of: (A) a filamentary axial constituent extending along the longitudinal axis of the filament; and (B) 3 to 8 filamentary lobe constituents radially protruding from and extending along the filamentary axial constituent, and each having a constricted portion thereof through which each filamentary lobe constituent is connected to the filamentary axial constituent, said multi-lobated cross-sectional profile of the filament satisfying the relationship (I) wherein d_l represents a largest cross-sectional width of the filamentary lobe constituents (B) and W represents a smallest cross-sectional width of the constricted portions of the filamentary lobe constituents (B).

US 5141811A

Elastic synthetic polymer filament with multi-lobated cross sectional profile comprises a filamentary axial constituent extending along the longitudinal axis of the filament and 3 to 8 filamentary lobe constituents radially protruding from and extending along the axial constituent of the filament and each having a constricted portion through which each filamentary lobe constituent is connected to the axial filamentary constituent. The cross section of the filament satisfies the condition that the ration of the maximum cross section width of a lobe to the width of the connecting portion is between 1.3 and 10.

ADVANTAGE - Filament has enhanced resistance to breakage by sewing needle and ... high-resistance to photo- and chlorine-deterioration

CHOSEN-DRAWING: Dwg.0/3 Dwg.0/3 Dwg.0/3

TITLE-TERMS: MULTILOBED THERMOPLASTIC ELASTOMER FILAMENT HIGH ULTRAVIOLET RADIATE CHLORINE RESISTANCE SOFT TEXTURE SEW

DERWENT-CLASS: A32 F01

CPI-CODES: A12-C03; A12-F01; A12-S05A; A12-S05D; F01-E02;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0005 0010 0013 0016 0226 1279 1283 1291 1294 1323 1462 1678 2239 2266 2268 2476 2486 2526 2527 2528 2530 2599 2602 2607 2628 2654 2667 2717 2821 3305 3309

Multipunch Codes: 014 02& 028 032 035 038 141 143 144 147 150 151 155 163 166 169 170 173 203 247 273 30& 32& 329 34& 353 437 481 482 483 485 52& 541 545 551 56& 560 566 575 582 596 604 608 619 663 664 667 692 720

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-071718

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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